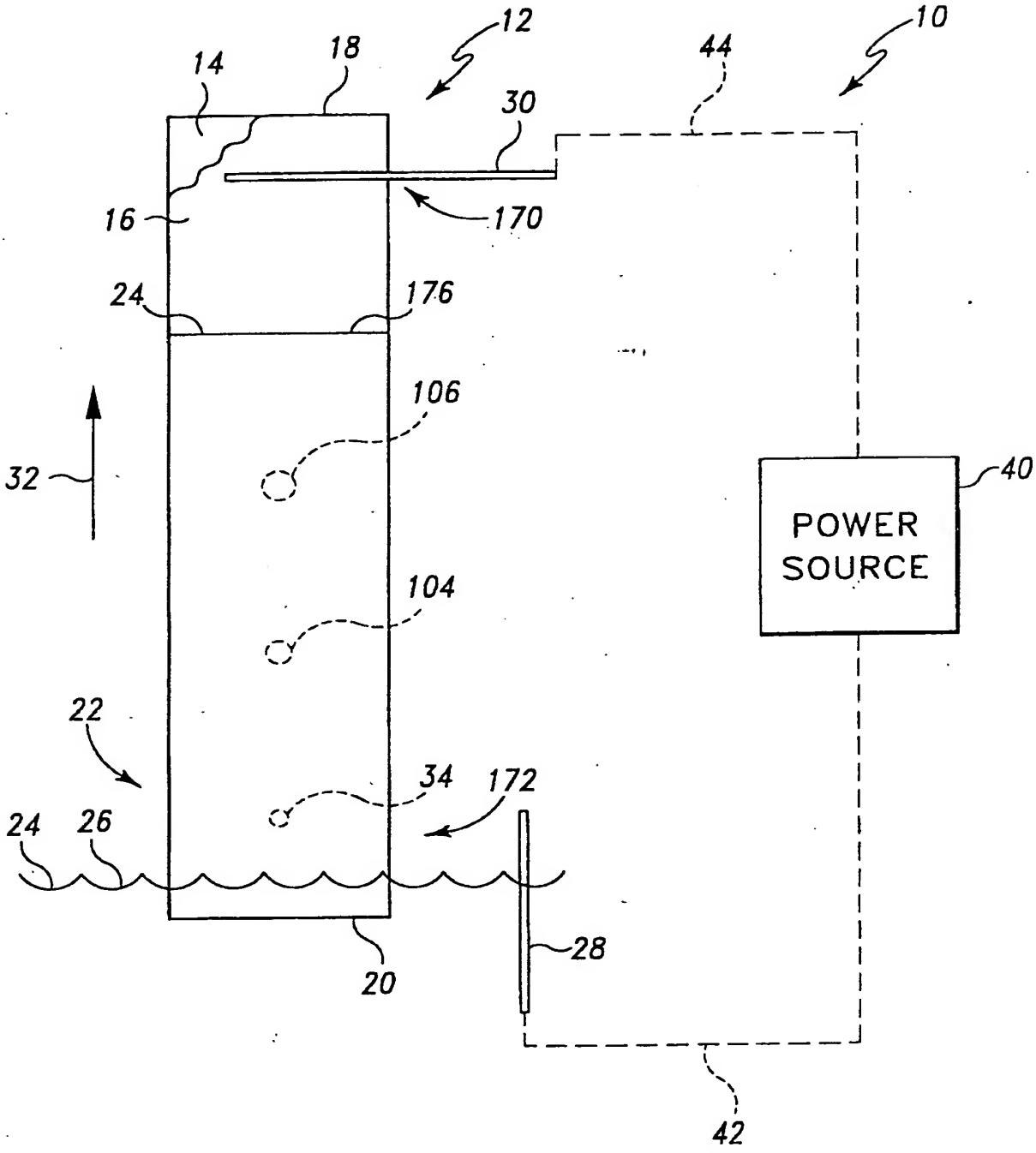
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18
44
30
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176
106
32
40
POWER
SOURCE
104
22
34
172
24
26
28
20
42

Fig. 1

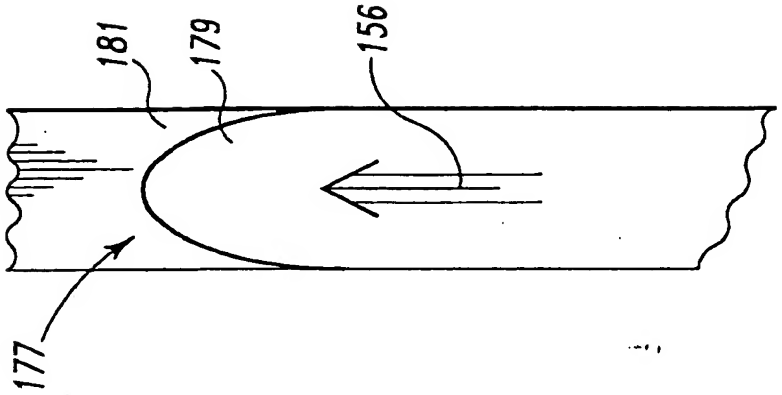


Fig. 2B

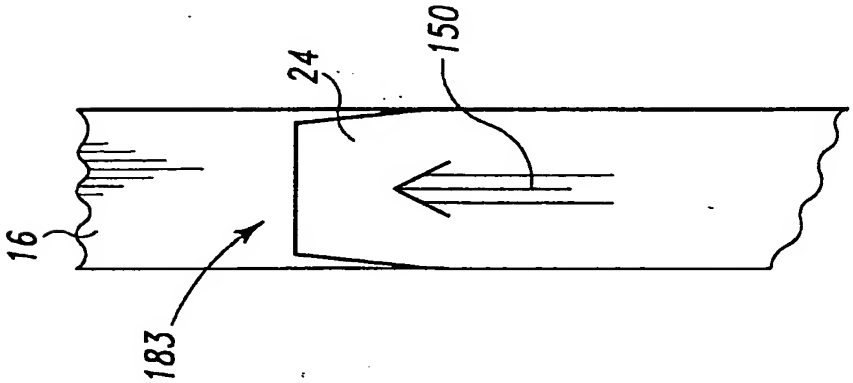
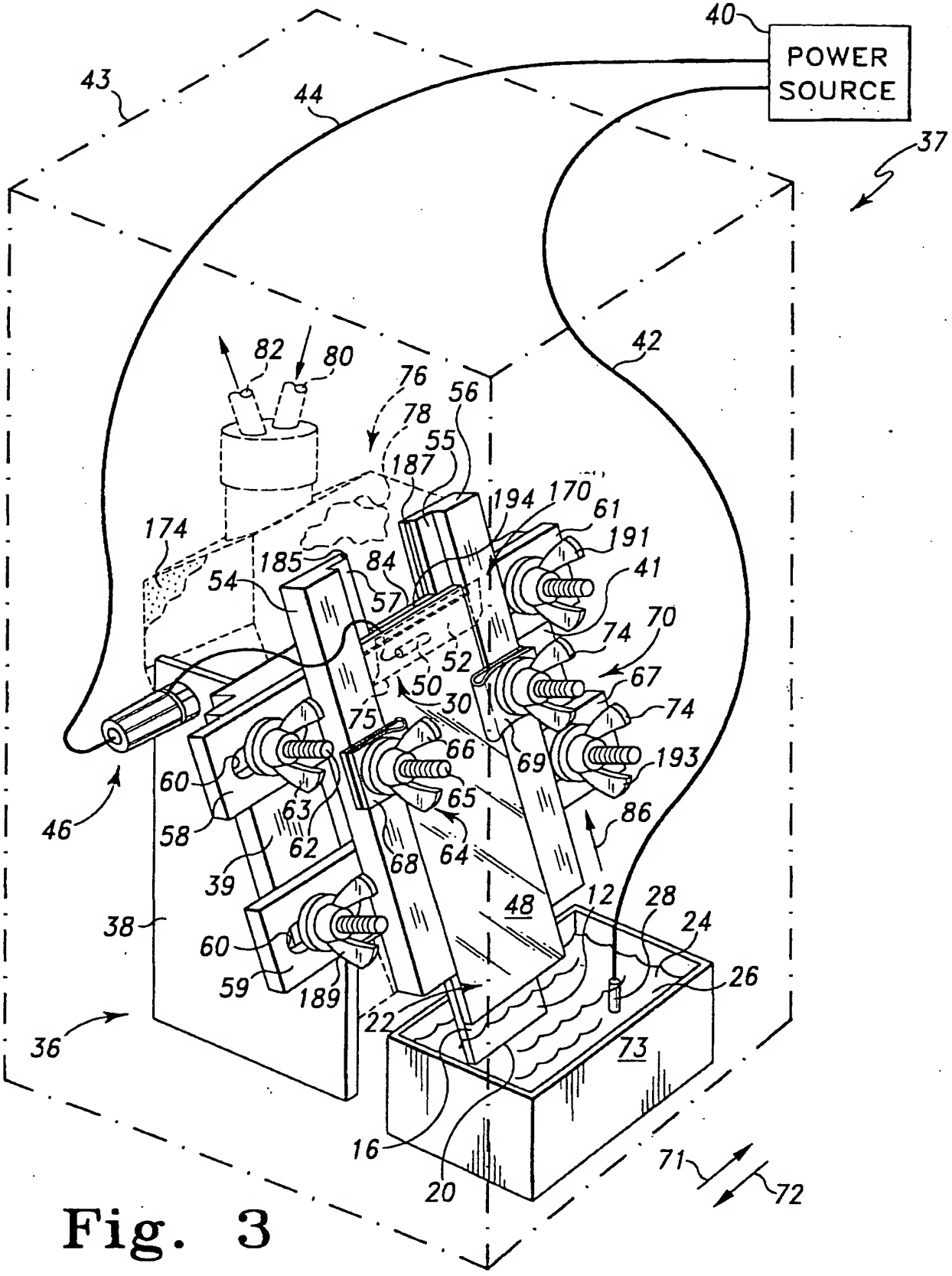


Fig. 2A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POWER SOURCE
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82
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41
54
57
74
70
52
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50
30
74
75
66
69
193
60
65
86
46
63
58
62
64
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24
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26
59
189
22
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16
71
72
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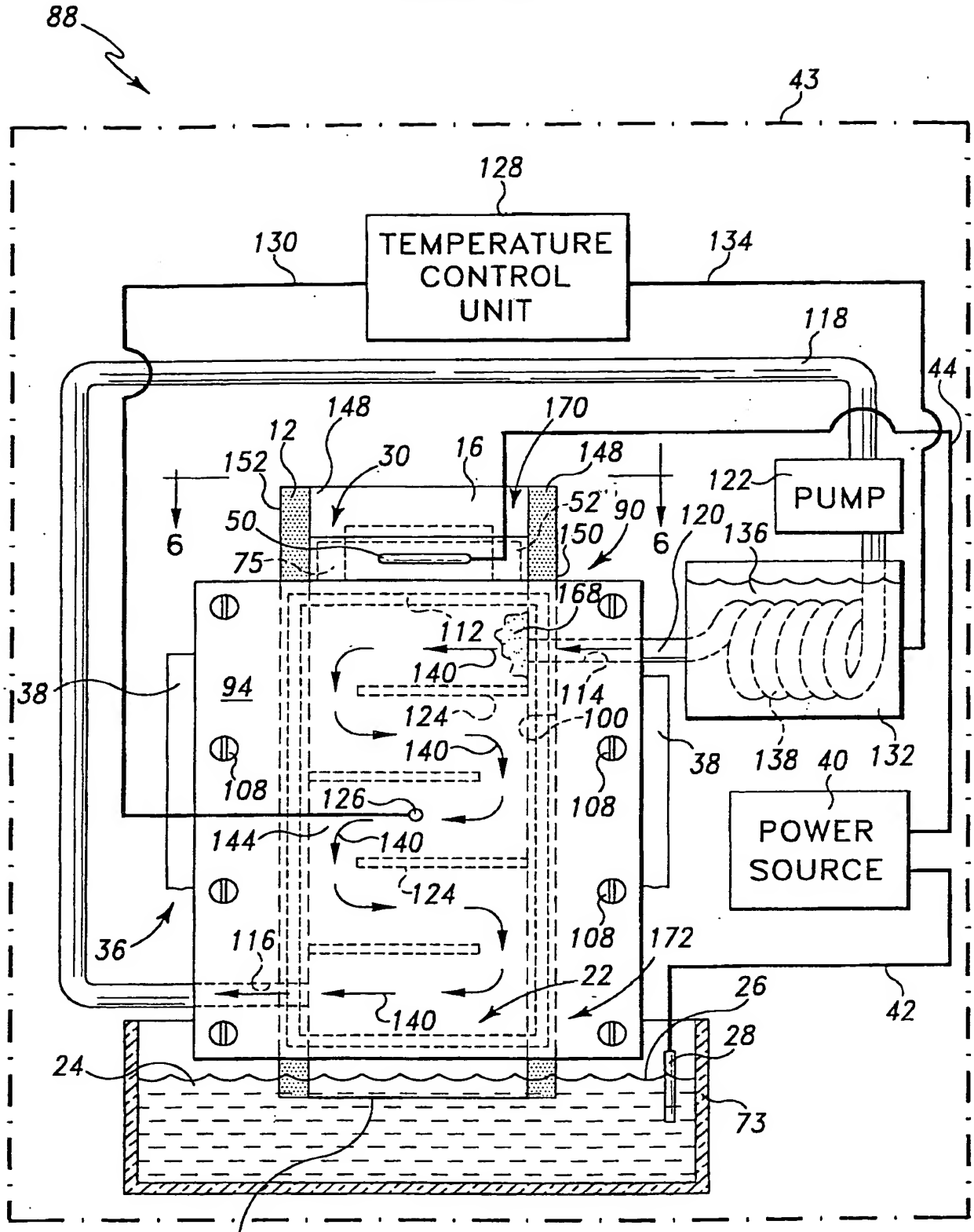
Fig. 3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43
128
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134
118
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148
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16
148
152
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PUMP
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90
120
50
150
136
6
6
75
168
112
140
38
94
114
124
100
140
38
138
40
132
108
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126
POWER SOURCE
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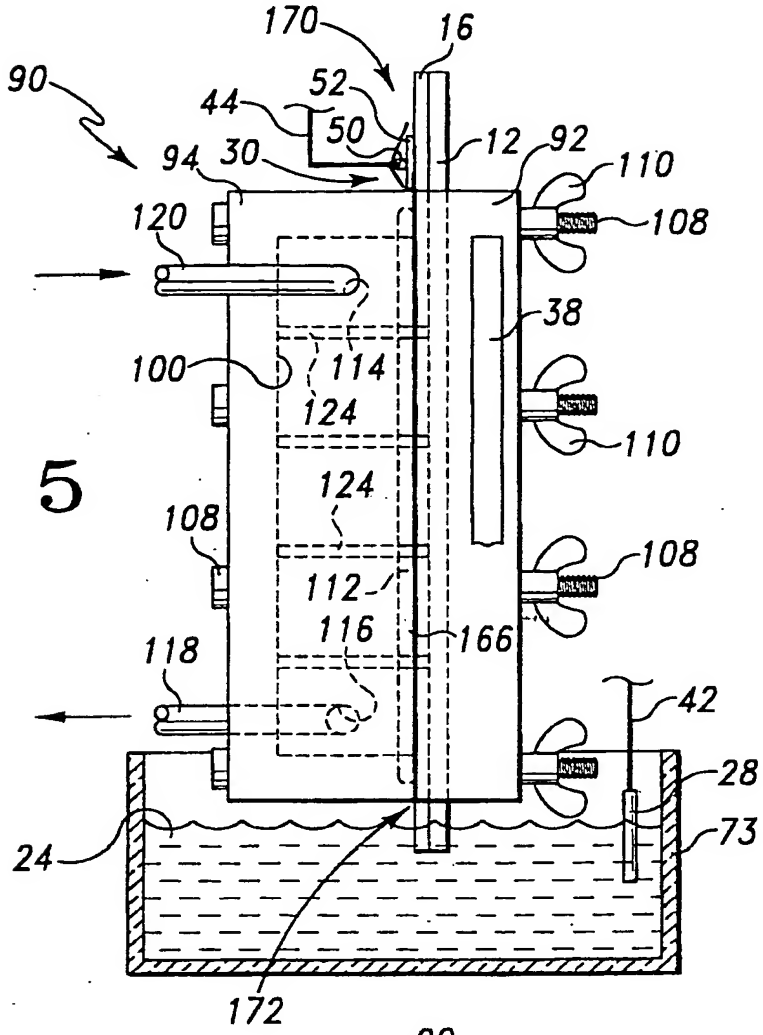
124
36
116
108
172
22
26
42
140
28
24
73
20

Fig. 4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110
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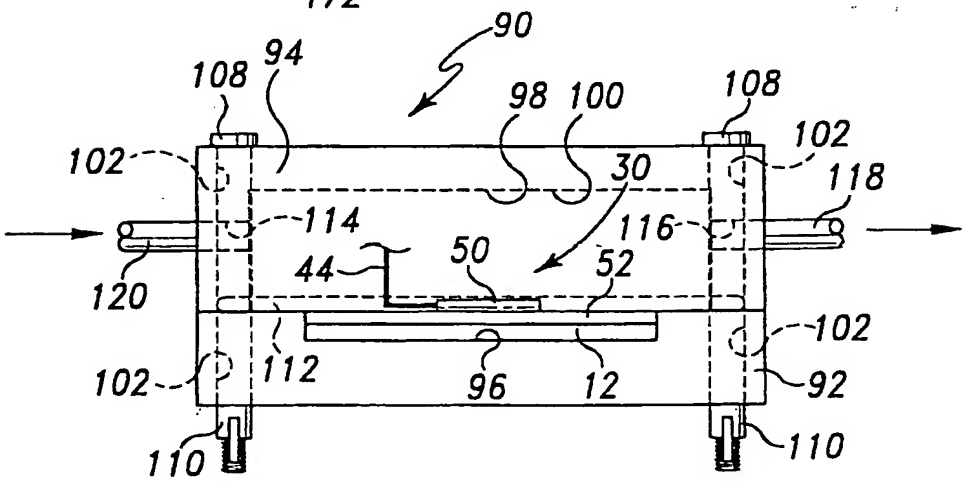
108
112
116
166
118
42
28
24
73
172

Fig. 5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94
108
98
100
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92
110
110

Fig. 6

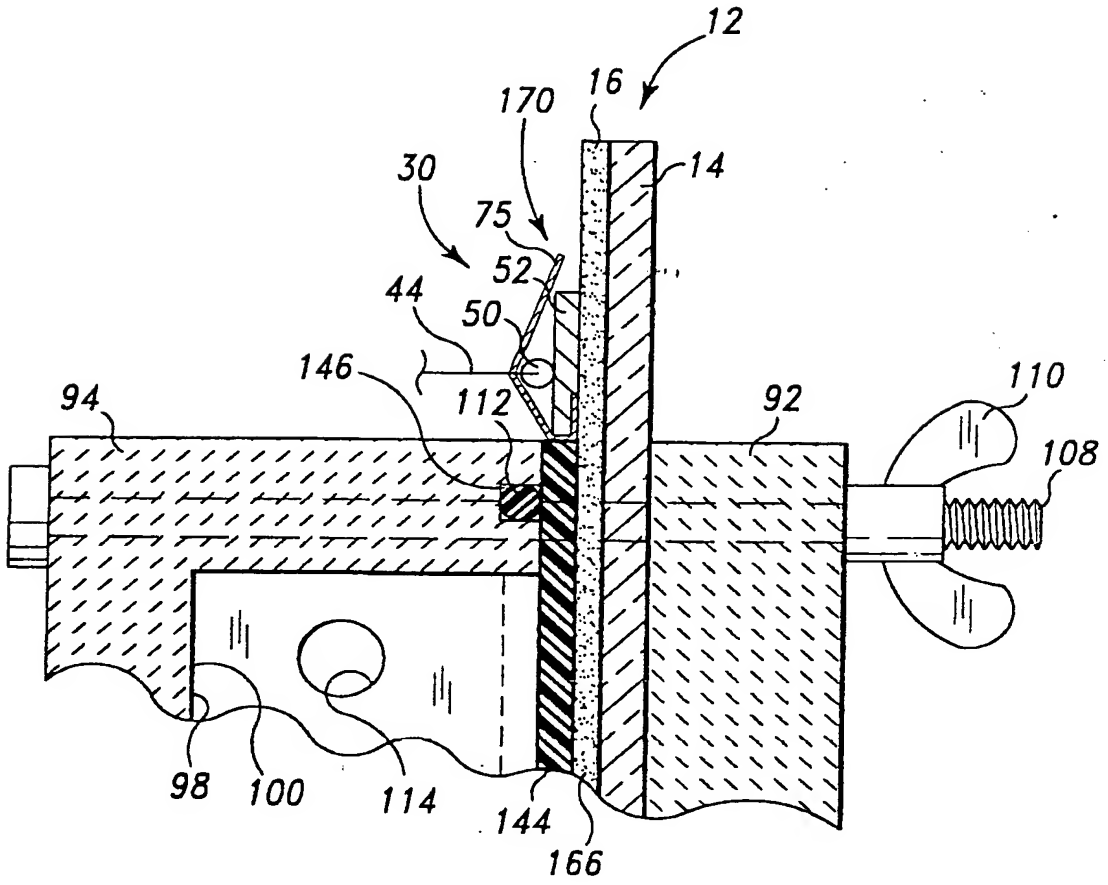
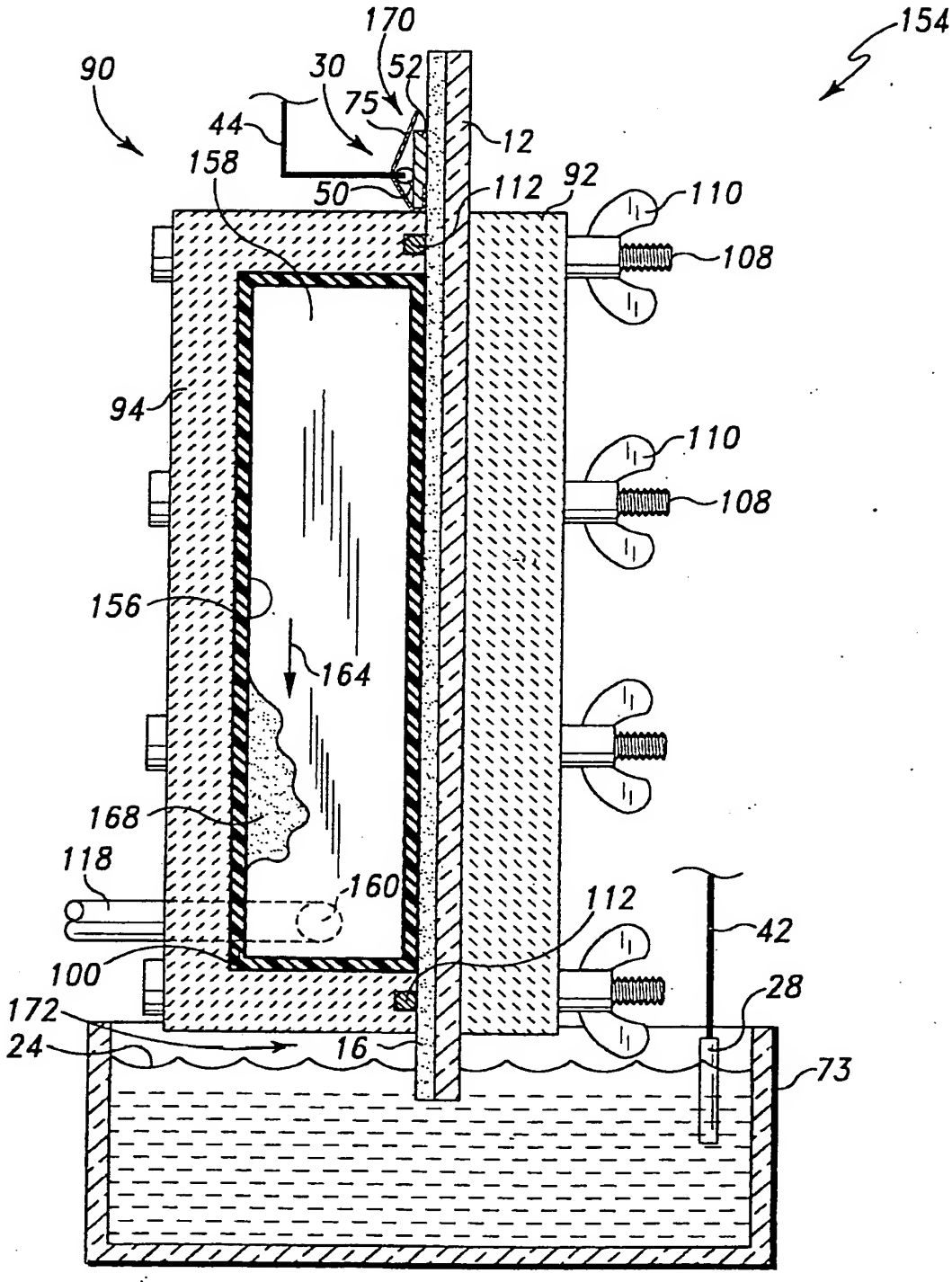


Fig. 7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112
92
110
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156
164
168
118
160
112
42
100
28
172
24
16
73

Fig. 8

Fig. 9A

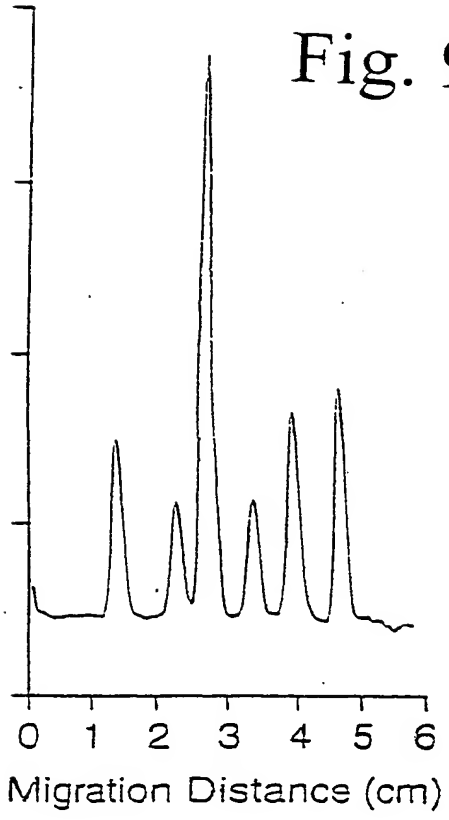
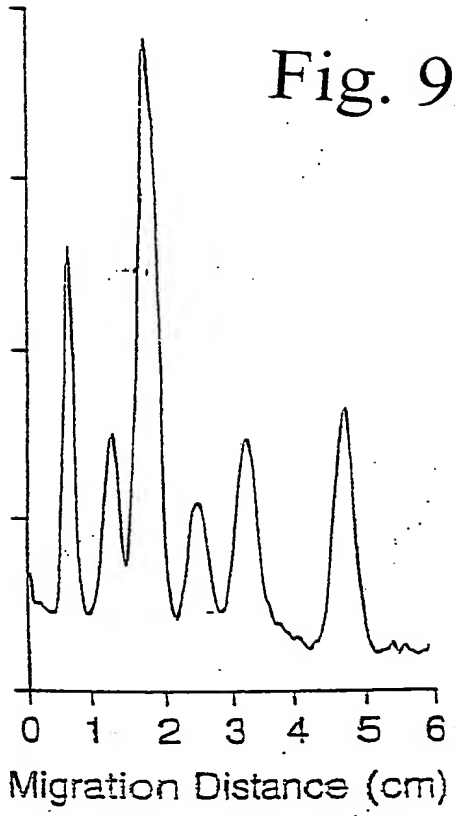

0 1 2 3 4 5 6
Migration Distance (cm)

Fig. 9B


0 1 2 3 4 5 6
Migration Distance (cm)

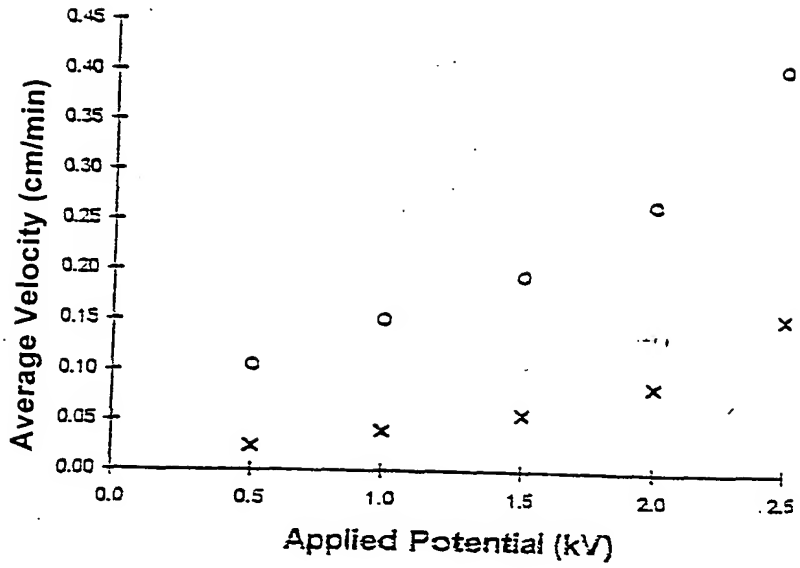

Average Velocity (cm/min)
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
0.0
0.5
1.0
1.5
2.0
2.5
Applied Potential (kV)

Fig. 10

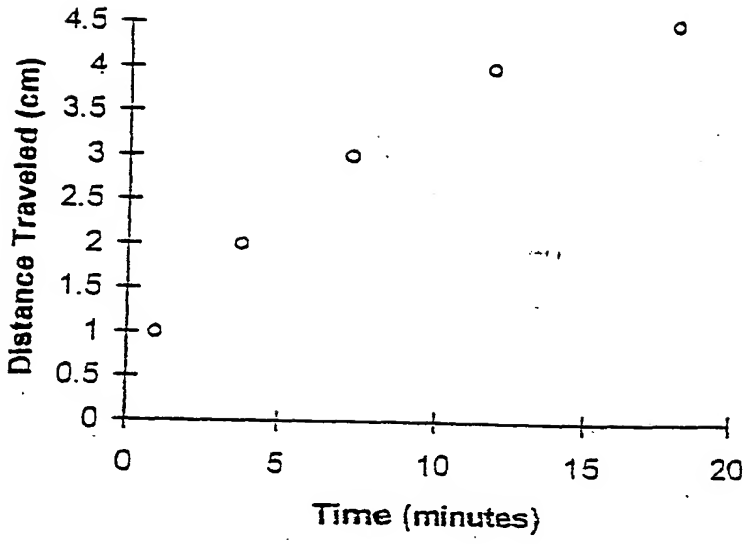

Distance Traveled (cm)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0
5
10
15
20
Time (minutes)

Fig. 11